

CERTIFICATE OF ANALYSIS

* FOR QUALITY ASSURANCE PURPOSES. NOT A MICHIGAN COMPLIANCE CERTIFICATE.

PRODUCED: MAY 12, 2022

SAMPLE: FULL SPECTRUM CBD OIL (12522) (TINCTURE) // CLIENT: NUVITA CBD // BATCH: PASS



MATRIX: TINCTURE

SAMPLE ID: CAM-220509-048

COLLECTED ON: MAY 08, 2022

RECEIVED ON: MAY 08, 2022

SAMPLE SIZE: 5.25 G

SAMPLED BY: HANNAH HARDY

RECEIVED BY: HANNAH HARDY

SERVING/PACKAGE SIZE: 0.94 G / 28.2 G

CANNABINOID OVERVIEW

CBD: 58.28 mg/srv

CBC: 3.53 mg/srv

TOTAL CANNABINOIDS: 65.21 mg/srv

BATCH RESULT: PASS

POTENCY	PASS
METALS	PASS
MICROBIAL	PASS
PESTICIDES	PASS
SOLVENTS	PASS
TERPENES	TESTED

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD // MAY 11, 2022

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
CBC		0.376 %	3.76 mg/g	0.0517/0.172	PASS	THCV		ND	ND	0.0699/0.233	PASS
CBD		6.20 %	62 mg/g	0.109/0.363	PASS	TOTAL THC **		0.273 %	2.73 mg/g		PASS
CBDA		ND	ND	0.142/0.474	PASS	TOTAL CBD **		6.20 %	62 mg/g		PASS
CBDV		0.0106 %	0.106 mg/g	0.0673/0.224	PASS	CBD/SRV		58.3 mg			PASS
CBG		0.0776 %	0.776 mg/g	0.0576/0.192	PASS	Δ ⁸ + Δ ⁹ -THC/SRV		2.57 mg			PASS
CBGA		ND	ND	0.0328/0.109	PASS	Δ ⁸ -THC/SRV		ND			PASS
CBN		ND	ND	0.0848/0.283	PASS	Δ ⁹ -THC/SRV		2.57 mg			PASS
Δ ⁸ + Δ ⁹ -THC		0.273 %	2.73 mg/g		PASS	CBD/PKG		1750 mg			PASS
Δ ⁸ -THC	10 %	ND	ND	0.0578/0.193	PASS	Δ ⁸ + Δ ⁹ -THC/PKG		77.0 mg			PASS
Δ ⁹ -THC		0.273 %	2.73 mg/g	0.102/0.34	PASS	Δ ⁸ -THC/PKG		ND			PASS
THCA		ND	ND	0.0883/0.294	PASS	Δ ⁹ -THC/PKG		77.0 mg			PASS

** TOTAL THC = DELTA-8-THC + DELTA-9-THC + (THCA X 0.877)

** TOTAL CBD = CBD + (CBDA X 0.877)

TRP-013: TERPENE ANALYSIS BY GC-MS // MAY 11, 2022

ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	AMT (%)	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES *	0.295 %		PASS	TERPINOLENE	ND	0.5/1	PASS
TRANS-CARYOPHYLLENE	0.119 %	0.5/1	PASS	TRANS-β-OCIMENE	ND	0.5/1	PASS
α-BISABOLOL	0.057 %	0.5/1	PASS	ISOBORNEOL	ND	0.5/1	PASS
α-HUMULENE	0.042 %	0.5/1	PASS	(+)-FENCHONE	ND	0.5/1	PASS
β-MYRCENE	0.018 %	0.5/1	PASS	GERANYL ACETATE	ND	0.5/1	PASS
TRANS-NEROLIDOL	0.014 %	0.5/1	PASS	γ-TERPINENE	ND	0.5/1	PASS
GUAJOL	0.012 %	0.5/1	PASS	EUCALYPTOL	ND	0.5/1	PASS
VALENCENE	0.008 %	0.5/1	PASS	CEDROL	ND	0.5/1	PASS
LIMONENE	0.008 %	0.5/1	PASS	CARYOPHYLLENE OXIDE	ND	0.5/1	PASS
CIS-β-OCIMENE	0.007 %	0.5/1	PASS	CAMPHOR	ND	0.5/1	PASS
(1R)-ENDO-(+)-FENCHYL ALCOHOL	0.005 %	0.5/1	PASS	CAMPHENE	ND	0.5/1	PASS
CIS-NEROLIDOL	0.005 %	0.5/1	PASS	β-PINENE	ND	0.5/1	PASS
ISOPULEGOL	ND	0.5/1	PASS	α-TERPINENE	ND	0.5/1	PASS
SABINENE HYDRATE	ND	0.5/1	PASS	α-PINENE	ND	0.5/1	PASS
LINALOOL *	ND	0.5/1	PASS	α-PHELLANDRENE	ND	0.5/1	PASS
PULEGONE	ND	0.5/1	PASS	α-CEDRENE	ND	0.5/1	PASS
SABINENE	ND	0.5/1	PASS	Δ ³ -CARENE	ND	0.5/1	PASS

* BEYOND SCOPE OF ACCREDITATION



RESULTS CERTIFIED BY: VERNON LALONE
LABORATORY DIRECTOR, CAMBIUM ANALYTICA
MAY 12, 2022

RESULTS CERTIFIED BY: DOUGLAS SMITH
CHIEF SCIENTIST, CAMBIUM ANALYTICA
MAY 12, 2022



PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS // MAY 11, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
CHLORFENAPYR	1 µg/g	ND	6.22/20.8	PASS	METHYL PARATHION	0.2 µg/g	ND	3.18/10.7	PASS

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS // MAY 11, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	71.5/238	PASS	IMAZALIL	0.2 µg/g	ND	16/53.4	PASS
ACEPHATE	0.4 µg/g	ND	16.8/56.1	PASS	IMIDACLOPRID	0.4 µg/g	ND	35.1/117	PASS
ACEQUINOCYL	2 µg/g	ND	29.1/97.1	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	12.3/40.9	PASS
ACETAMIPRID	0.2 µg/g	ND	15/49.9	PASS	MALATHION	0.2 µg/g	ND	16.2/53.9	PASS
ALDICARB	0.4 µg/g	ND	43.8/146	PASS	METALAXYL	0.2 µg/g	ND	18.2/60.5	PASS
AZOXYSTROBIN	0.2 µg/g	ND	10.8/36.1	PASS	METHIOCARB	0.2 µg/g	ND	14.3/47.7	PASS
BIFENAZATE	0.2 µg/g	ND	25.9/86.4	PASS	METHOMYL	0.4 µg/g	ND	9.75/32.5	PASS
BIFENTHRIN	0.2 µg/g	ND	15.1/50.2	PASS	MGK-264	0.2 µg/g	ND	19.9/66.2	PASS
BOSCALID	0.4 µg/g	ND	13.2/43.2	PASS	MYCLOBUTANIL	0.2 µg/g	ND	20.4/68	PASS
CARBARYL	0.2 µg/g	ND	12.5/41.6	PASS	NALED	0.5 µg/g	ND	23.8/79.3	PASS
CARBOFURAN	0.2 µg/g	ND	11/36.8	PASS	OXAMYL	1 µg/g	ND	36.5/121	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	25.4/84.8	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	37.5/125	PASS
CHLORPYRIFOS	0.2 µg/g	ND	25.6/85.1	PASS	PERMETHRIN	0.2 µg/g	ND	39.1/130	PASS
CLOFENTEZINE	0.2 µg/g	ND	20.9/69.5	PASS	PHOSMET	0.2 µg/g	ND	24.7/82.5	PASS
CYFLUTHRIN	1 µg/g	ND	40/133	PASS	PRALLETHRIN	0.2 µg/g	ND	38.5/128	PASS
CYPERMETHRIN	1 µg/g	ND	28.7/95.5	PASS	PROPICONAZOLE	0.4 µg/g	ND	41.9/140	PASS
DAMINOZIDE	1 µg/g	ND	24.7/82.4	PASS	PROPOXUR	0.2 µg/g	ND	12/40.1	PASS
DIAZINON	0.2 µg/g	ND	19.3/64.2	PASS	PYRETHRINS	1 µg/g	ND	20.7/69.1	PASS
DICHLORVOS	1 µg/g	ND	13/43.3	PASS	PYRIDABEN	0.2 µg/g	ND	27/90.1	PASS
DIMETHOATE	0.2 µg/g	ND	12.7/42.2	PASS	SPINOSAD	0.2 µg/g	ND	6.1/20.3	PASS
ETHOPROPHOS	0.2 µg/g	ND	19.8/65.9	PASS	SPINOSAD A	ND	ND	6.6/22	
ETOFENPROX	0.4 µg/g	ND	14.9/49.6	PASS	SPINOSAD D	ND	ND	2.49/8.28	
ETOXAZOLE	0.2 µg/g	ND	14/46.6	PASS	SPIROMESIFEN	0.2 µg/g	ND	15.1/50.4	PASS
FENOXYCARB	0.2 µg/g	ND	20.7/68.9	PASS	SPIROTETRAMAT	0.2 µg/g	ND	36.7/122	PASS
FENPYROXIMATE	0.4 µg/g	ND	45.5/152	PASS	SPIROXAMINE	0.4 µg/g	ND	12.7/42.3	PASS
FIPRONIL	0.4 µg/g	ND	46.7/156	PASS	TEBUCONAZOLE	0.4 µg/g	ND	38.9/130	PASS
FLONICAMID	1 µg/g	ND	23/76.6	PASS	THIACLOPRID	0.2 µg/g	ND	16/53.3	PASS
FLUDIOXONIL	0.4 µg/g	ND	11.4/37.9	PASS	THIAMETHOXAM	0.2 µg/g	ND	14.2/47.2	PASS
HEXYTHIAZOX	1 µg/g	ND	29.2/97.3	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	19.4/64.6	PASS



COL-027: TOTAL COLIFORMS // MAY 10, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
COLIFORMS	100 CFU/g	ND	PASS

STEC-030: SHIGA TOXIN PRODUCING E. COLI // MAY 11, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SHIGA TOXIN-PRODUCING E. COLI	Any amount in 1 gram	ND	PASS

SAL-030: SALMONELLA // MAY 11, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
SALMONELLA SPP.	Any amount in 1 gram	ND	PASS

ASP-029: ASPERGILLUS SPP. // MAY 11, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amount in 1 gram	ND	PASS

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
ASPERGILLUS SPP.	Any amount in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amount in 1 gram	ND	PASS

TYM-028: TOTAL YEAST AND MOLD // MAY 12, 2022

ANALYTE	LIMIT	AMT (CFU/g)	PASS/FAIL
YEAST & MOLD	10000 CFU/g	ND	PASS

MET-05: HEAVY METALS ANALYSIS BY ICP-MS // MAY 10, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
ARSENIC	1.5 µg/g	ND	0.0448/0.5	PASS
CADMIUM	0.5 µg/g	< LOQ	0.0256/0.5	PASS
CHROMIUM	2 µg/g	0.009 µg/g	0.0274/0.5	PASS
COPPER		0.010 µg/g	0.0446/0.5	

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/kg)	PASS/FAIL
LEAD	0.5 µg/g	0.001 µg/g	0.0169/0.5	PASS
MERCURY	3 µg/g	0.002 µg/g	0.00439/0.05	PASS
NICKEL		0.007 µg/g	0.0271/0.5	

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/HS // MAY 12, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	5 µg/g	ND	0.4/1.34	PASS
2,2-DIMETHYLBUTANE	290 µg/g	ND	0.98/3.27	PASS
2,3-DIMETHYLBUTANE	290 µg/g	ND	2.19/7.32	PASS
2-METHYLBUTANE	5000 µg/g	ND	1.54/5.14	PASS
3-METHYLPENTANE	290 µg/g	ND	0.73/2.44	PASS
ACETONE	5000 µg/g	ND	1.57/5.23	PASS
ACETONITRILE	410 µg/g	ND	1.85/6.17	PASS
BENZENE	2 µg/g	ND	0.18/0.59	PASS
BUTANE	5000 µg/g	ND	1.68/5.59	PASS
BUTANES ALL ISOMERS *	5000 µg/g	ND		PASS
CHLOROFORM	60 µg/g	ND	0.78/2.59	PASS
ETHANOL	5000 µg/g	ND	6.02/20.1	PASS
ETHYL ACETATE	5000 µg/g	ND	1.95/6.49	PASS
ETHYLENE OXIDE	50 µg/g	ND	0.15/0.49	PASS
ETHYL ETHER	5000 µg/g	ND	1.37/4.55	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
HEPTANE	5000 µg/g	ND	1.31/4.37	PASS
HEXANE	290 µg/g	ND	1.42/4.74	PASS
HEXANES ALL ISOMERS *	290 µg/g	ND		PASS
ISOBUTANE	5000 µg/g	ND	1.6/5.34	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	4.9/16.3	PASS
METHANOL	3000 µg/g	ND	7.89/26.4	PASS
METHYLENE CHLORIDE	600 µg/g	ND	1.36/4.53	PASS
NEOPENTANE	5000 µg/g	ND	1.49/4.97	PASS
PENTANE	5000 µg/g	ND	1.46/4.87	PASS
PENTANES ALL ISOMERS *	5000 µg/g	ND		PASS
PROPANE	5000 µg/g	ND	1.95/6.51	PASS
TOLUENE	890 µg/g	ND	1.88/6.26	PASS
TRICHLOROETHYLENE	80 µg/g	ND	0.29/0.96	PASS
TOTAL XYLENES	2170 µg/g	ND	2.02/6.72	PASS

* BEYOND SCOPE OF ACCREDITATION



ACCREDITATIONS



ILAC-MRA



ISO/IEC 17025

ILAC-MRA, PJLA ACCREDITED

PLC-02: CHEMICAL RESIDUE ANALYSIS BY LC-MS/MS

ABAMECTIN, ABAMECTIN BA, ABAMECTIN BB, ACEPHATE, ACEQUINOCYL, ACETAMIPRID, ALDICARB, AZOXYSTROBIN, BIFENAZATE, BIFENTHRIN, BOSCALID, CARBARYL, CARBOFURAN, CHLORANTRANILIPROLE, CHLORFENAPYR, CHLORPYRIFOS, CLOFENTEZINE, CYFLUTHRIN, CYPERMETHRIN, DAMINOZIDE, DIAZINON, DICHLORVOS, DIMETHOATE, ETHOPROPHOS, ETOFENPROX, ETOXAZOLE, FENOXYCARB, FENPYROXIMATE, FIPRONIL, FLONICAMID, FLUDIOXONIL, HEXYTHIAZOX, IMAZALIL, IMIDACLOPRID, KRESOXIM-METHYL, MGK-264, MALATHION, MALATHION A, METALAXYL, METHIOCARB, METHOMYL, METHYL PARATHION, MYCLOBUTANIL, NALED, OXAMYL, PACLOBUTRAZOL, PERMETHRIN, PERMETHRIN CIS, PERMETHRIN TRANS, PHOSMET, PRALLETHRIN, PROPICONAZOLE, PROPOXUR, PYRETHRINS, PYRETHRINS CINERIN I, PYRETHRINS CINERIN I-3, PYRETHRINS JASMOLIN I, PYRETHRINS JASMOLIN I-3, PYRETHRINS PYRETHRIN I, PYRIDABEN, SPINOSAD, SPINOSAD A, SPINOSAD D, SPIROMESIFEN, SPIROTETRAMAT, SPIROXAMINE, TEBUCONAZOLE, THIACLOPRID, THIAMETHOXAM, TRIFLOXYSTROBIN

POT-01: CANNABINOID POTENCY ANALYSIS BY HPLC-DAD

CBD, CBDA, DELTA-9-THC, THCA, CBDV, THCV, CBG, CBGA, CBN, DELTA-8-THC, CBC, DELTA-8 + DELTA-9-THC, TOTAL CBD, TOTAL THC

TRP-013: TERPENE ANALYSIS BY GC-MS

(+)-FENCHONE, (1R)-ENDO-(+)-FENCHYL ALCOHOL, CAMPHENE, CAMPHOR, CARYOPHYLLENE OXIDE, CEDROL, DELTA-3-CARENE, EUCALYPTOL, FENCHOL, GERANIOL, GERANYL ACETATE, GUAJOL, ISOBORNEOL, ISOPULEGOL, LIMONENE, NEROLIDOL, OCIMENE, PHELLANDRENE, PULEGONE, SABINENE, SABINENE HYDRATE, TERPINEOL 3, TERPINOLENE, VALENCENE, ALPHA-BISABOLOL, ALPHA-CEDRENE, ALPHA-HUMULENE, ALPHA-PHELLANDRENE, ALPHA-PINENE, ALPHA-TERPINENE, BETA-MYRCENE, BETA-PINENE, CIS-NEROLIDOL, CIS-BETA-OCIMENE, GAMMA-TERPINENE, TRANS-CARYOPHYLLENE, TRANS-NEROLIDOL, TRANS-BETA-OCIMENE

SOL-04: RESIDUAL SOLVENT ANALYSIS BY GC-MS/MS

1,2-DICHLOROETHANE, 2,2-DIMETHYLBUTANE, 2,3-DIMETHYLBUTANE, 2-METHYLBUTANE, 2-METHYLPENTANE, 3-METHYLPENTANE, ACETONE, ACETONITRILE, BENZENE, BUTANE, CHLOROFORM, ETHANOL, ETHYL ACETATE, ETHYL ETHER, ETHYLENE OXIDE, HEPTANE, HEXANE, ISOBUTANE, ISOPROPYL ALCOHOL, METHANOL, METHYLENE CHLORIDE, NEOPENTANE, PENTANE, PROPANE, TOLUENE, TOTAL XYLENES, TRICHLOROETHYLENE, M-XYLENE, O-XYLENE, P- AND M-XYLENE, P-XYLENE

MET-05: HEAVY METALS ANALYSIS BY ICP-MS

ARSENIC, CADMIUM, CHROMIUM, COPPER, LEAD, MERCURY, NICKEL

PGC-03: CHEMICAL RESIDUE ANALYSIS BY GC-MS/MS

CHLORFENAPYR, METHYL PARATHION

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QUALITY RELEASE

Sensory: PASS

Visual: PASS

Aroma: PASS

Flavor: PASS

Lab Report (COA): PASS

Signature: Carly J. Ford Release Date: 5-12-22

